Program Executive Office
Intelligence, Electronic Warfare & Sensors

PEO IEW&S

TEAM C4ISR

AUSA
Acquisition Symposium

Mr. Edward T. Bair

13 September 20

Target America

USS Cole
US Embassy in Beirut
Oklahoma City
Pan Am flight 103, Lockerbie, Scotland
Achille Lauro hijacking
World Trade Center in New York -Bombing
9.11.01 Attacks
West Berlin night club bombing
HELP US FIND THE MISSING TERRORIST, BEFORE HE FINDS MORE INNOCENT VICTIMS.

Terrorism:

Preplanned, Smart, Patient, Adaptive, Access to Commercial Technology, Anywhere/Anytime

The Great, Growing Engine of Change – Technology Push

Affordable, Commercial Comms + ***Web/Internet Global Accessibility*** = ***Data & Information Accessibility & Overload***

Today…

Economics
Technology
Demographics

Tomorrow…

"FAST DEFEAT THE

See First = Understand

Challenges for the Current Force

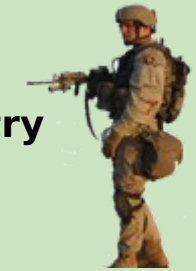
- **War is the norm, peace is the exception**
- **Our adversaries seek adaptive advantage through asymmetry**
- **We have near peer competitors in niche areas**
- **Conventional Force on Force conflicts are still possible**
- **There is an enormous pool of potential combatants armed with irreconcilable ideas**
- **Our homeland is part of the battlespace**
- **We are adapting to these challenges NOW**

We need to generate more versatile comb

We Call Our Strategy Modularity

- Modularity is packaging units into flexible configurations
- Modular units are rapidly deployable, responsive, agile, tailorable and discrete packages of land force combat power

X
Infantry



X
Heavy

X
Stryker

X
FCS
Future

Standard maneuver brigades with organic combined arms capabilities

X
Maneuver Enhancement

X
Reconnaissance, Surveillance, Target Acquisition

X
Aviation

X
Fires

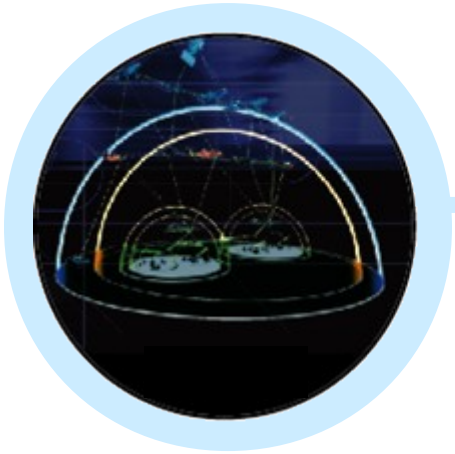
X
SUST
Sustainment

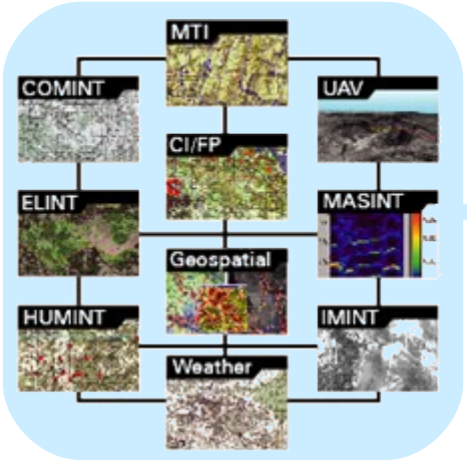
Supporting brigades with standard headquarters, but variable subordinate units

How Am I Supporting Army – Current to Future

PEO Mission: Building the Intelligence Enterprise

Persistent





Actionable

COLLECT **PROCESS** **VISUALIZATION**

Persistent Surveillance ... Actionable Intelligence

Enables Decisiveness & Overmatch

- **Netted Sensors, Horizontal Access**
- **Manned - Unmanned, Ground-Air**
- **Assured Access to and Interdependence with Joint and National**
- **Robust Reach and Expeditionary**
- **Visualization at the Point of Decision**
- **Speed and Agility**

National, Joint & Army Big Ideas

JV 2020, DPG, QDR & Transformation Big Ideas

- **Commander Driven – Purpose Oriented – Knowledge Based Mission Orders**
- **Fully Integrated; Space to Mud; Factory to Foxhole**
- **Network-Centric – Knowledge Based**
- **Fully Interoperable**
- **Project and Sustain US Forces in Distant Environments**
- **Leverage Information Technology and Innovative Concepts**
- **Versatile Force Linked and Networked Internally and Externally**
- **Leverage Joint/Interagency Reach Capabilities**

Army ISR Big Ideas (FA16)

- **Modularity**
- **Asymmetric Coverage**
- **Intelligence is Operations**
- **Fight for Intelligence**
- **Every Soldier is a Sensor**
- **Flatten the Collection/ Assessment Cycle**
- **Analytical Overwatch**
- **Collaborative Environment**
- **Pantheon Project**
- **Project Foundry**
- **Red Teaming**

Actionable Intelligence

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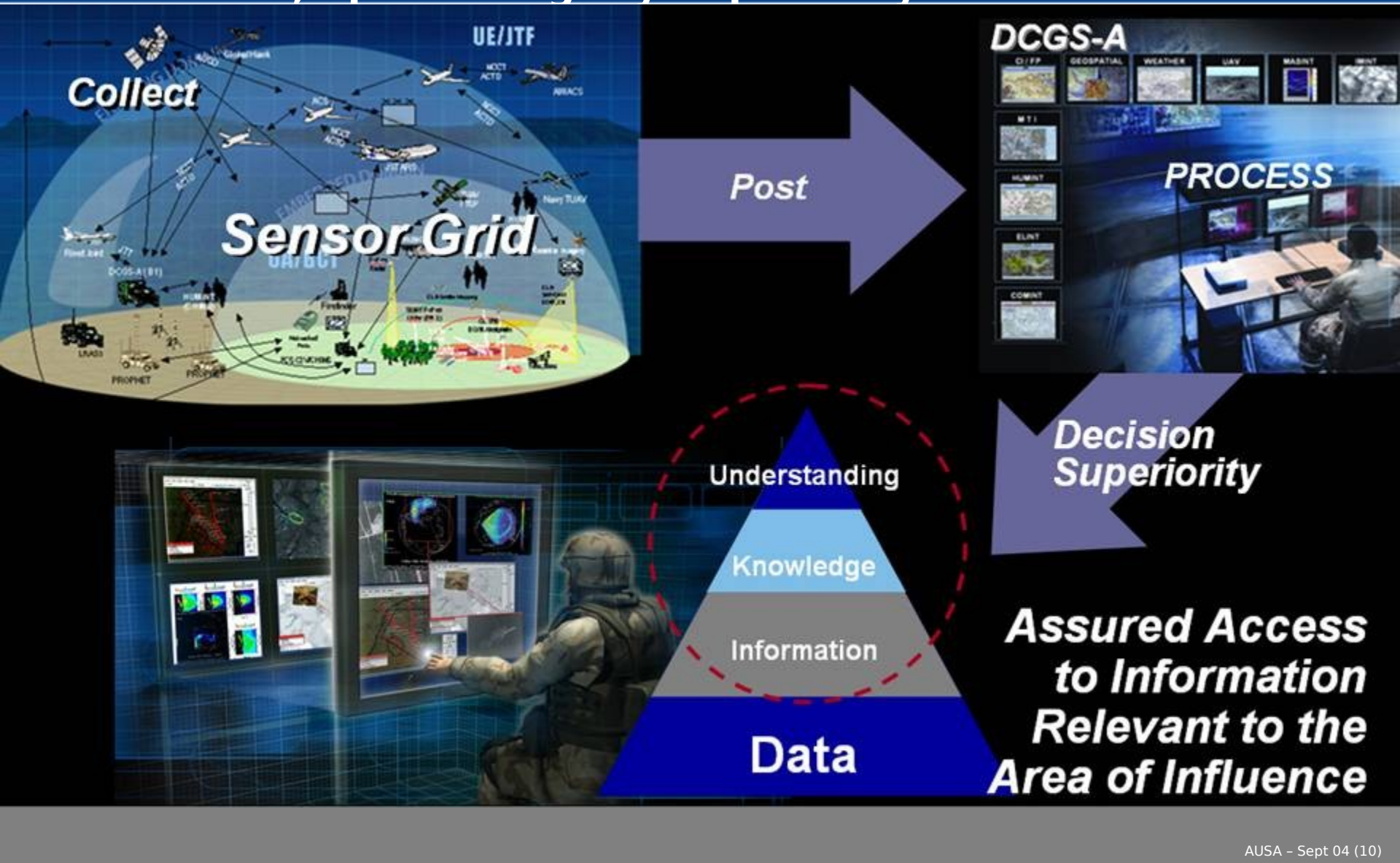
The Intelligence Enterprise

Persistence, Speed & Agility Superiority



Comprehension Challenge: Making Sense of Diverse

DCGS/DCGS-A:
Fusing Data & Info into Warfighter Relevance

Where am I?
Where is the opponent?
What am I doing?
What is the opponent doing?
What are my risks?
What are the opponents risks?

The right information…
in the right place…
at the right time…
for ACTION.

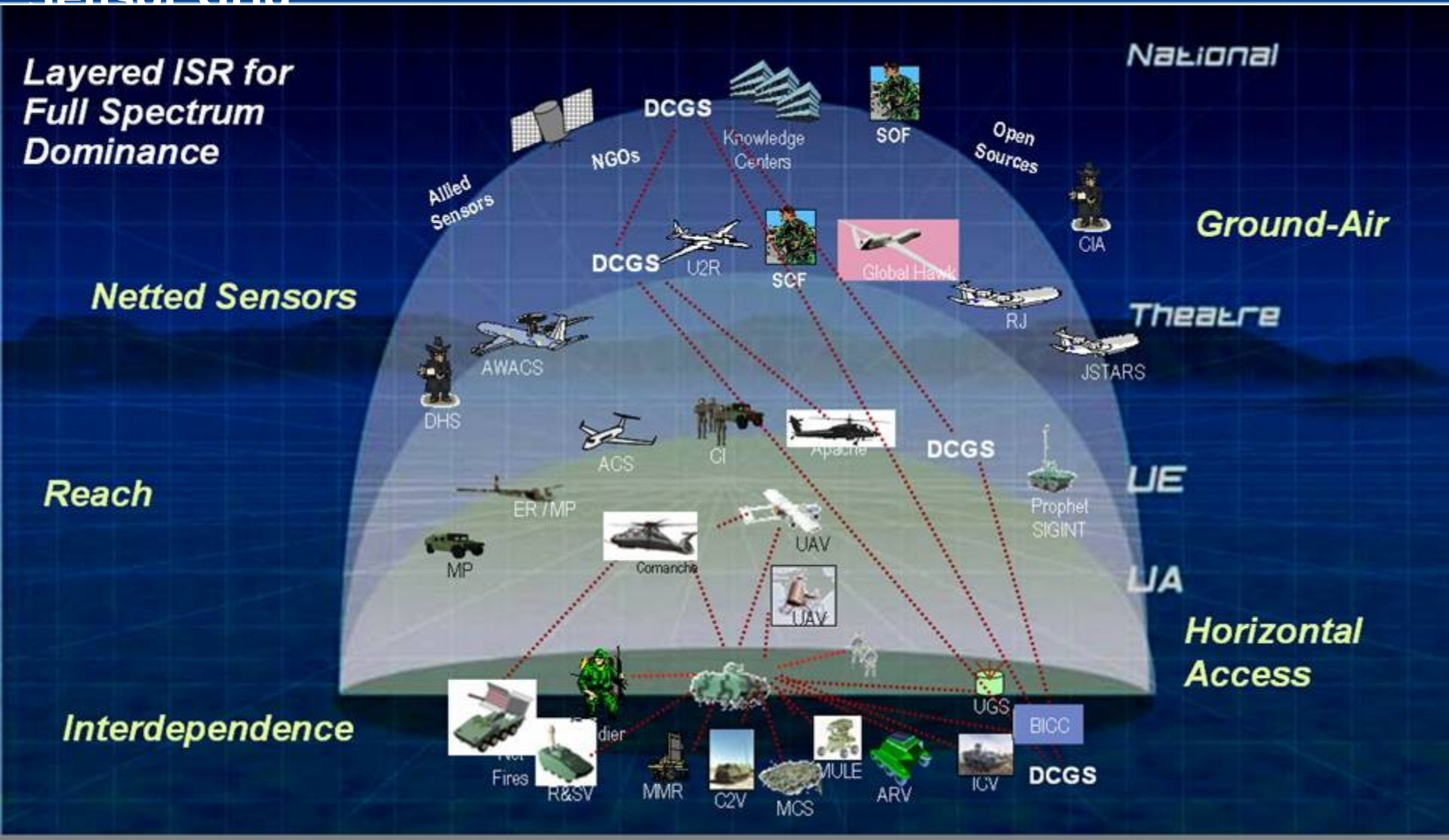
Intelligence Enterprise

Collect Once, Interdependent Access

What is the Army Doing?

Intelligence Enterprise

Sensor Grid



Human Comprehension Challenge – Information Overload

Information/Data

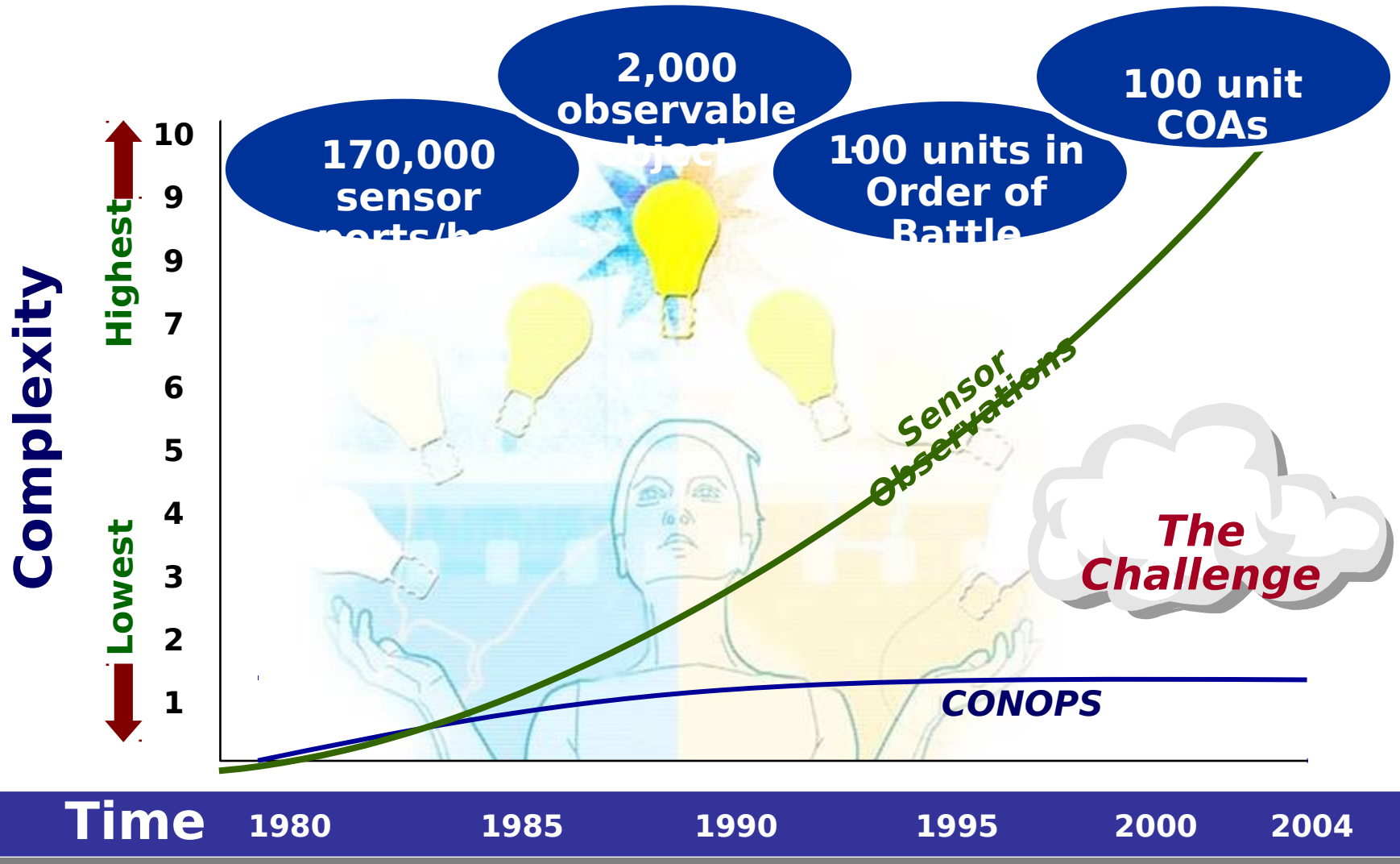
Terrain, Weather, Images
GMTI, Reports (SIGINT), Etc…

More information than can be analyzed or comprehended by an analyst

Result

- **Fatigue**
- **Missed Information**
- **Threats Missed**
- **Security Compromised**

Comprehension Challenge



Where There's FUSION
There's POWER.

Fusion Characteristics

Automate

Cognitive

Organize the use of discrete pieces of data

Identify what is physically out there

Correlate like information

Resolve information conflicts

Aggregate discrete entities into larger objects

Determine enemy objectives

Interpret events and actions

Determine what the entities are doing

Predict what the enemy will do next

Assess how to improve information fidelity

Determine collection needs

Visualize the information

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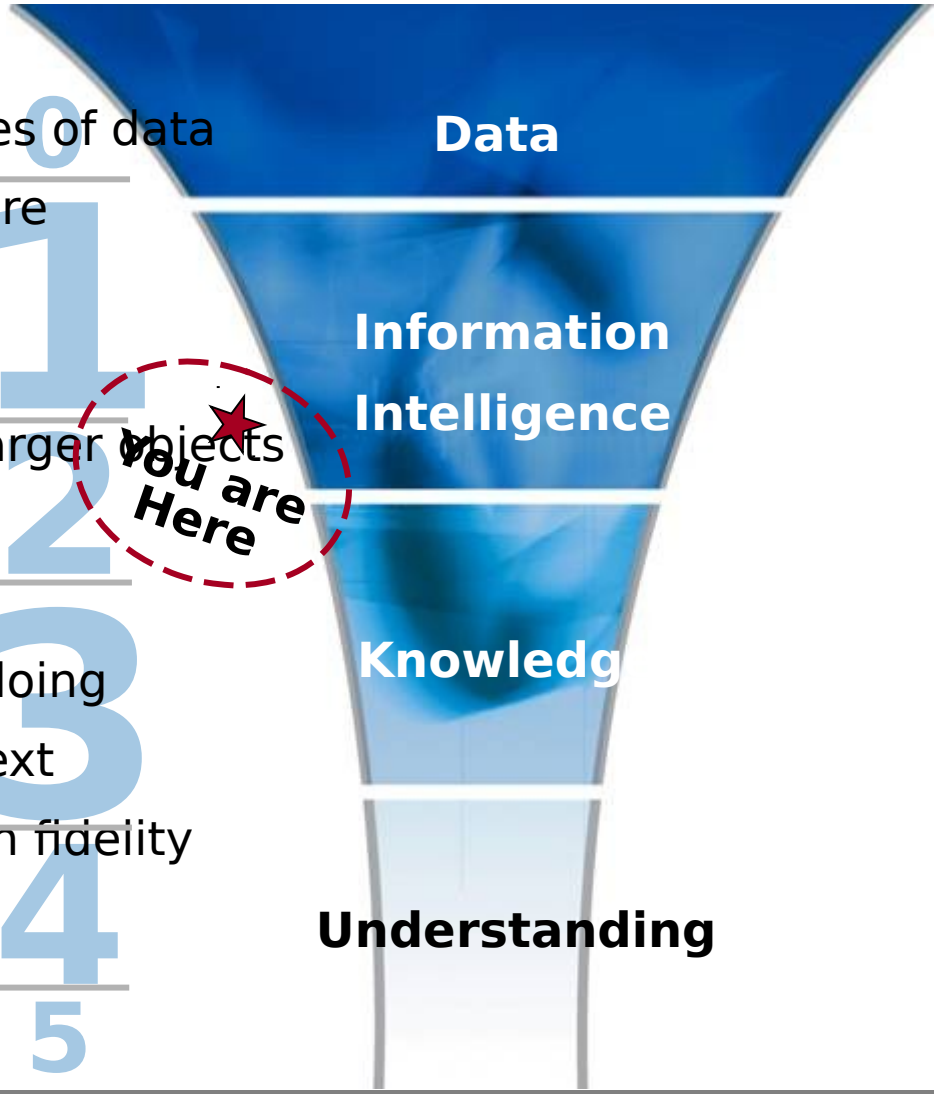
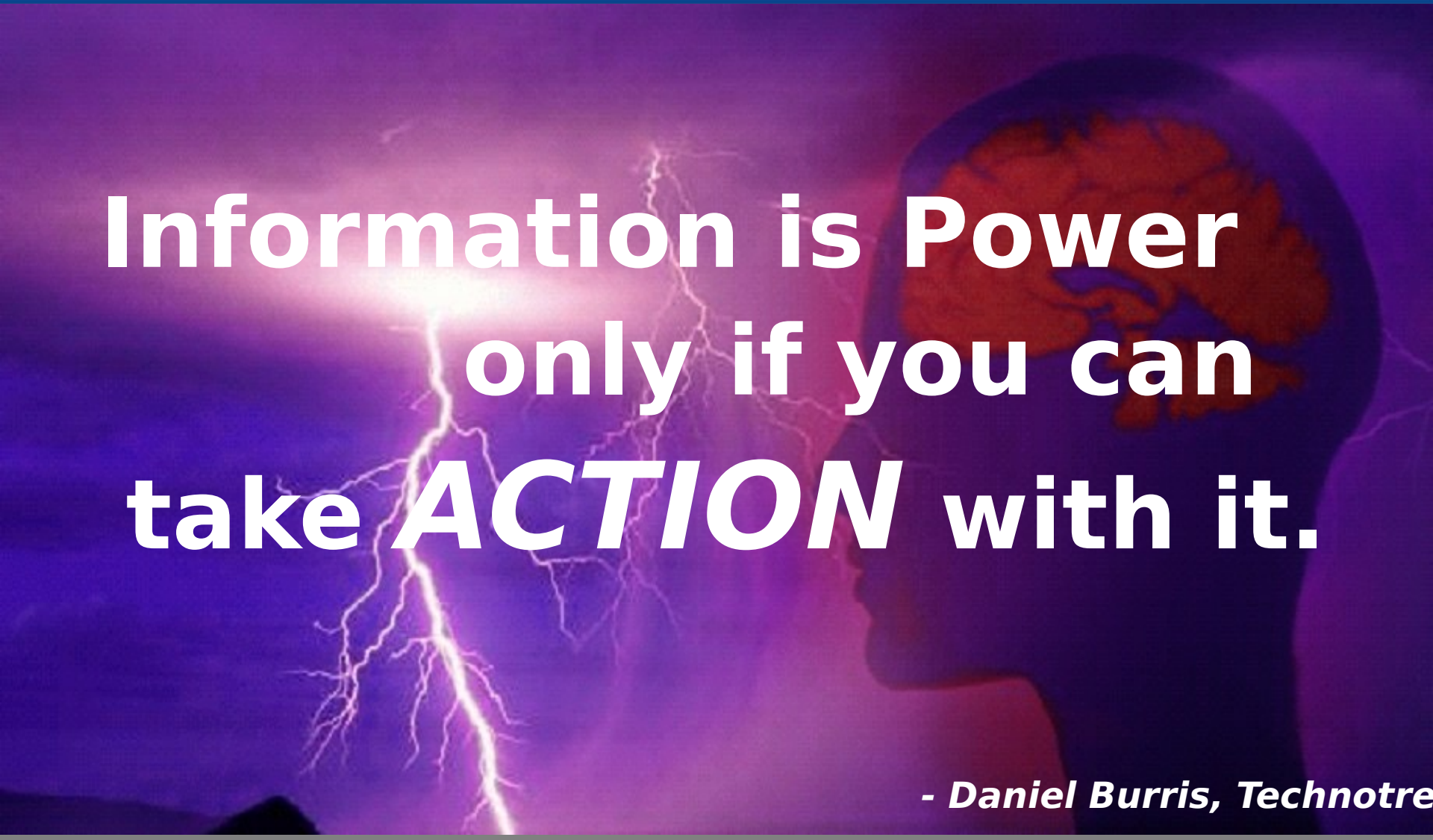
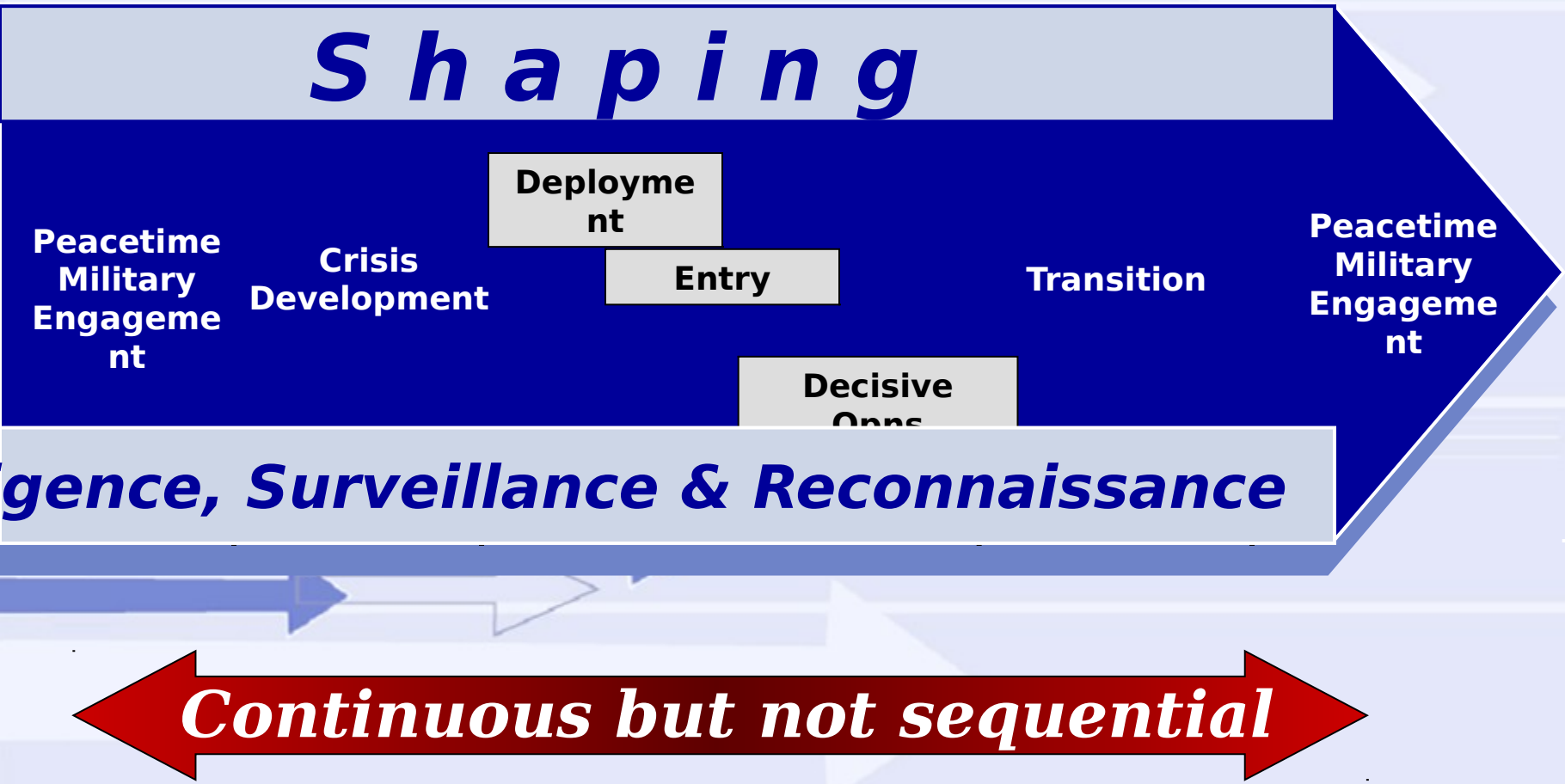
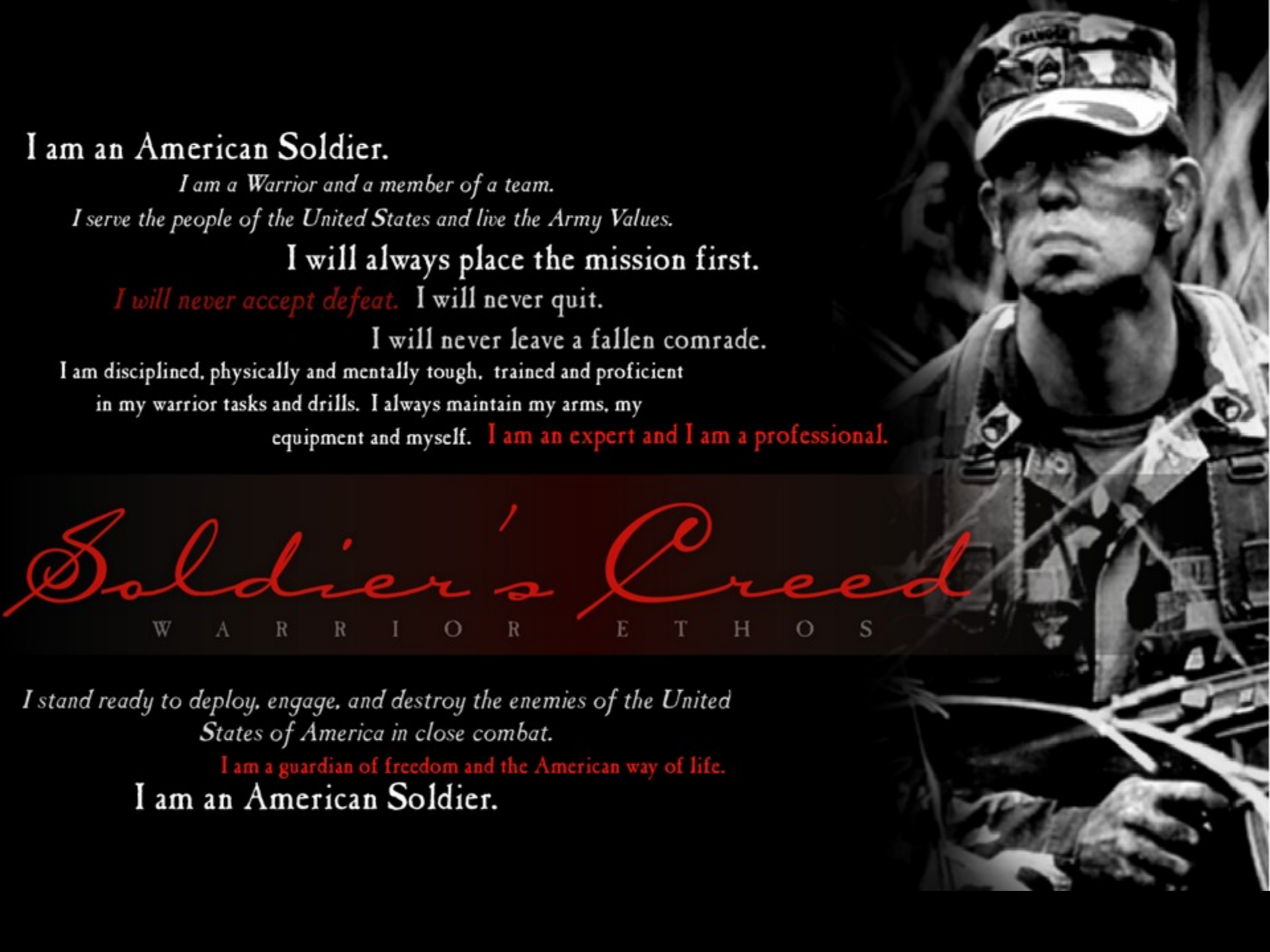



Information is Power
only if you can
take ACTION with it.
- Daniel Burris, Technotre

ISR Challenge




I am an American Soldier.
I am a Warrior and a member of a team.
I serve the people of the United States and live the Army Values.
I will always place the mission first.
I will never accept defeat. I will never quit.
I will never leave a fallen comrade.
I am disciplined, physically and mentally tough, trained and proficient
in my warrior tasks and drills. I always maintain my arms, my
equipment and myself. I am an expert and I am a professional.
Soldier's Creed
WARRIOR ETHOS
I stand ready to deploy, engage, and destroy the enemies of the United
States of America in close combat.
I am a guardian of freedom and the American way of life.
I am an American Soldier.